



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,170	08/24/2007	Noriyuki Suzuki	187856/US-465122-00027	4734
30873	7590	10/29/2009	EXAMINER	
DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT 250 PARK AVENUE NEW YORK, NY 10177			CHAO, MICHAEL W	
ART UNIT	PAPER NUMBER			
		2442		
MAIL DATE	DELIVERY MODE			
10/20/2009	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/584,170	<b>Applicant(s)</b> SUZUKI ET AL.
	<b>Examiner</b> Michael Chao	<b>Art Unit</b> 2442

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 26 August 2009.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 17-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 17-21 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____  |

#### **DETAILED ACTION**

1. This action is in response to Applicant's amendment filed 8/26/2009, which was in response to USPTO Office Action mailed 5/26/2009.
2. Claims 17-21 are pending.
3. Claims 17, 19-21 are amended.

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 17, 20, 21, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rassaian et al. (US 6,813,749), in view of Bergeron et al. (US 6,246,410).
6. With respect to claim 17, Rassaian teaches:

A system, comprising:

a server-side computing arrangement configured to provide numerical analysis data to a user-side computing arrangement which is connected to a network to perform a numerical analysis regarding a working member and a forming member, the working and forming members being produced by using a predetermined material, wherein the user-side computing arrangement comprises:

- i. an first arrangement configured to input a material name (See Rassian Figure 7, front window, Name column) and a material model identification number (See Rassian

Figure 7, rear window Part Number column) identifying at least one of a type of material property data ("subjecting the finite element model of the component to at least one environmental load" Rassian column 3 line 63), a type of material model, a name of an analysis program or a version thereof, ("depicts an example of a user interface that illustrates the type of parts and the package styles for the parts" Rassaian column 11 line 3)

- i. a fourth arrangement configured to store the material name and the material model identification number corresponding to one or more types of a material property data from ("the user is prompted to specify the material of the part and the parameters of the material, as represented in FIG. 7" Rassian column 11 line 19) (a) a mechanical property value, (b) a thermal physical property value, or (c) an electromagnetic property value as for a number of materials, ("parts and package style from a parts database 36" Rassaian column 11 line 1; also "thermal environment parameter" Rassaian column 11 line 35)
- ii. a ninth arrangement configured to perform a numerical analysis by using the material property data such that the user is unconcerned regarding substances of the material property data. ("The environmental load(s) may be applied to the finite element model of the component by finite element analysis" Rassaian column 12 line 16)

Rassaian does not teach:

- ii. a second arrangement configured to store addresses of the server-side computing arrangement corresponding to the material name and the material model identification number, and

Art Unit: 2442

iii. a third arrangement configured to transmit the material name and the material model identification number to the server-side computing arrangement having the address corresponding to the material name and the material model identification number inputted from the first arrangement,

wherein the server-side computing arrangement comprises:

ii. a fifth arrangement configured to receive the material name and the

Material model identification number transmitted from the third arrangement of the user-side computing arrangement,

iii. a sixth arrangement configured to extract the one or more types of the material property data from (a) the mechanical property value, (b) the thermal physical property value, or (c) the electromagnetic property value corresponding to the material name and the material model identification number stored by the fourth arrangement based on the received material name and the material model identification number, and

iv. a seventh arrangement configured to transmit the material property data extracted by the sixth arrangement to the user-side computing arrangement,

and

wherein the user-side computing arrangement further comprises:

i. an eighth arrangement configured to receive the material property data transmitted from the seventh arrangement of the server-side computing arrangement,  
and

Bergeron teaches:

Art Unit: 2442

ii. a second arrangement configured to store addresses of the server-side computing arrangement corresponding to the material name and the material model identification number, and ("Server combobox 43 displays the available active servers in a scrollable list" Bergeron column 6 line 3)

iii. a third arrangement configured to transmit the material name and the material model identification number to the server-side computing arrangement having the address corresponded to the material name and the material model identification number inputted from the first arrangement, ("the selected database is searched" Bergeron column 8 line 27)

wherein the server-side computing arrangement comprises:

ii. a fifth arrangement configured to receive the material name and the material model identification number transmitted from the third arrangement of the user-side computing arrangement, ("the selected database is searched" Bergeron column 8 line 27)

iii. a sixth arrangement configured to extract the one or more types of the material property data from (a) the mechanical property value, (b) the thermal physical property value, or (c) the electromagnetic property value corresponding to the material name and the material model identification number stored by the fourth arrangement based on the received material name and the material model identification number, and ("data palette 1 is used to display information content of the rows of a result set" Bergeron column 9 line 10. Databases return data as result sets, therefore 'extraction' from a database [Applicant's specification paragraph 36] can only be done through a result set.)

Art Unit: 2442

iv. a seventh arrangement configured to transmit the material property data extracted by the sixth arrangement to the user-side computing arrangement, and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

wherein the user-side computing arrangement further comprises:

i. an eighth arrangement configured to receive the material property data transmitted from the seventh arrangement of the server-side computing arrangement, and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

With respect to claim 20, Rassaian teaches: A system for receiving a provision of numerical analysis data from a server-side computing arrangement connected to a network to perform a numerical analysis regarding a working member and a forming member created using a predetermined material, comprising:

a first arrangement configured to input a material name (See Rassian Figure 7, front window, Name column) and a material model identification number (See Rassian Figure 7, rear window Part Number column) identifying at least one of a type of material

Art Unit: 2442

property data ("subjecting the finite element model of the component to at least one environmental load" Rassian column 3 line 63), a type of material model, a name of an analysis program or a version thereof; ("depicts an example of a user interface that illustrates the type of parts and the package styles for the parts" Rassaian column 11 line 3)

a fifth arrangement configured to perform a numerical analysis using the material property data such that the user is unconcerned regarding substances of the material property data. ("The environmental load(s) may be applied to the finite element model of the component by finite element analysis" Rassaian column 12 line 16; also "The information regarding at least one part of the component maybe received from a database of parts information following a definition of the part(s) by a user." Rassian column 3 line 46)

Rassaian does not teach:

a second arrangement configured to store addresses of the server-side computing arrangement corresponding to the material name and the material model identification number;

a third arrangement configured to transmit the material name and the material model identification number to the server-side computing arrangement having at least one of the addresses corresponding to the material name and the property item inputted from the first arrangement,

a fourth arrangement configured to receive one or more types of a material property data from (a) the mechanical property value, (b) the thermal physical property

Art Unit: 2442

value, and (c) the electromagnetic property value corresponding to the material name, that are extracted from a material property data storage arrangement based on the material name and the material model identification number and transmitted at the server-side computing arrangement; and

Bergeron teaches:

a second arrangement configured to store addresses of the server-side computing arrangement corresponding to the material name and the material model identification number; ("Server combobox 43 displays the available active servers in a scrollable list" Bergeron column 6 line 3)

a third arrangement configured to transmit the material name and the material model identification number to the server-side computing arrangement having at least one of the addresses corresponding to the material name and the property item inputted from the first arrangement, ("the selected database is searched" Bergeron column 8 line 27)

a fourth arrangement configured to receive one or more types of a material property data from (a) the mechanical property value, (b) the thermal physical property value, and (c) the electromagnetic property value corresponding to the material name, that are extracted from a material property data storage arrangement based on the material name and the material model identification number and transmitted at the server-side computing arrangement; and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

With respect to claim 21, Rassaian teaches: A method for providing numerical analysis data by a server-side computing arrangement to a user-side computing arrangement which is connected to a network to perform a numerical analysis regarding a working member and a forming member created using a predetermined material, comprising:

extracting one or more types of material property data from (a) a mechanical property value, (a) a thermal physical property value, or (c) an electromagnetic property value corresponding to the material name (See Rassian Figure 7, front window, Name column) and the material model identification number (See Rassian Figure 7, rear window Part Number column) stored by a material property data storage arrangement in which the material name and the material model identification number are stored which correspond to one or more types of the material property data from (a) the mechanical property value, (b) the thermal physical value, or (c) the electromagnetic property value for a number of materials based on the received material name and the material model identification number; ("parts and package style from a parts database 36" Rassaian column 11 line 1; also "thermal environment parameter" Rassaian column 11 line 35) so

Art Unit: 2442

as to be available to a numerical analyzer and invisible to a user ("The information regarding at least one part of the component maybe received from a database of parts information following a definition of the part(s) by a user." Rassian column 3 line 46)

Rassaiyan does not teach:

transmitting a material name and a material model identification number identifying at least one of a type of material property data, a type of material model, a name of an analysis program or a version thereof to the server-side computing arrangement having an address corresponding to the material name and the material model identification number inputted from an input arrangement at the user-side computing arrangement,

receiving the material name and the material model identification number transmitted from the user-side computing arrangement;

transmitting the extracted material property data to the user-side computing arrangement from the server-side computing arrangement; and

receiving, at the user-side computing arrangement, the material property data transmitted from the server-side computing arrangement.

Bergeron teaches:

transmitting a material name and a material model identification number identifying at least one of a type of material property data, a type of material model, a name of an analysis program or a version thereof to the server-side computing arrangement having an address corresponding to the material name and the material model identification number inputted from an input arrangement at the user-side

Art Unit: 2442

computing arrangement, ("the selected database is searched" Bergeron column 8 line 27)

receiving the material name and the material model identification number transmitted from the user-side computing arrangement; ("the selected database is searched" Bergeron column 8 line 27)

transmitting the extracted material property data to the user-side computing arrangement from the server-side computing arrangement; and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

receiving, at the user-side computing arrangement, the material property data transmitted from the server-side computing arrangement. ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

7. Claims 18, 19, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rassaian, in view of Bergeron, in further view of England et al. (US 6,330,670).

8. Regarding claim 18, Rassaian in view of Bergeron does not teach: wherein the server-side computing arrangement further comprises a tenth arrangement configured to avail the material property data to the ninth arrangement and precluding the user from having access thereto when the material property data extracted by the sixth arrangement is transmitted to the user-side computing arrangement.

England teaches: a system to prevent user access, ("a digital rights management operating system protects rights-managed data, such as downloaded content, from access by untrusted programs while the data is loaded into memory" England column 4 line 1)

A Person of ordinary skill in the art at the time of invention would have modified the combination of Rassaian in view of Bergeron with England by enforcing content protection policies on files downloaded from a server.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify the combination in order to protect the rights of a content provider.

With respect to claim 19, Rassian teaches: A system for providing numerical analysis data to a user-side computing arrangement connected to a network to perform a numerical analysis regarding a working member and a forming member created using a predetermined material, comprising:

a first arrangement configured to store a material name (See Rassian Figure 7, front window, Name column) and a material model identification number (See Rassian Figure 7, rear window Part Number column) identifying at least one of a type of material

Art Unit: 2442

property data ("subjecting the finite element model of the component to at least one environmental load" Rassaiian column 3 line 63), a type of material model, a name of an analysis program or a version thereof, which correspond to one or more types of a material property data from (a) a mechanical property value, (b) a thermal physical property value, or (c) an electromagnetic property value provided for a number of materials; ("parts and package style from a parts database 36" Rassaiian column 11 line 1; also "thermal environment parameter" Rassaiian column 11 line 35)

a fifth arrangement configured to avail the material property data a numerical analysis arrangement provided in the user-side computing arrangement and ("The environmental load(s) may be applied to the finite element model of the component by finite element analysis" Rassaiian column 12 line 16)

Rassaiian does not teach:

a second arrangement configured to receive the material name and the material model identification number transmitted from the user-side computing arrangement;

a third arrangement configured to extract the one or more types of the material property data from (a) the mechanical property value, (b) the thermal physical property value, and (c) the electromagnetic property value corresponding to the material name and the material model identification number stored by the first arrangement based on the received material name and the material model identification number;

a fourth arrangement configured to transmit the material property data extracted by the third arrangement to the user-side computing arrangement; and

unavailable to a user when the material property data extracted by the third arrangement is transmitted to the user-side computing arrangement.

Bergeron teaches:

a second arrangement configured to receive the material name and the material model identification number transmitted from the user-side computing arrangement; ("the selected database is searched" Bergeron column 8 line 27)

a third arrangement configured to extract the one or more types of the material property data from (a) the mechanical property value, (b) the thermal physical property value, and (c) the electromagnetic property value corresponding to the material name and the material model identification number stored by the first arrangement based on the received material name and the material model identification number; ("data palette 1 is used to display information content of the rows of a result set" Bergeron column 9 line 10)

a fourth arrangement configured to transmit the material property data extracted by the third arrangement to the user-side computing arrangement; and

("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

Further, the combination of Rassaian in view of Bergeron does not illustrate unavailing the user of the material property data.

England teaches: a system to prevent user access, ("a digital rights management operating system protects rights-managed data, such as downloaded content, from access by untrusted programs while the data is loaded into memory" England column 4 line 1)

A Person of ordinary skill in the art at the time of invention would have modified the combination of Rassaian in view of Bergeron with England by enforcing content protection policies on files downloaded from a server.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify the combination in order to protect the rights of a content provider.

#### ***Response to Arguments***

9. Applicant's arguments filed 08/26/2009 have been fully considered but they are not persuasive.
10. **Argument 1:** Applicant's argument (page 13) that Rassian does not disclose a "material model identification umber identifying at least one of a type of material

property data, a type of material model, a name of an analysis program or a version thereof", as required by claims 17, 20 and 21, is not persuasive.

11. **Response 1:** Rassian, however, teaches recited elements: an first arrangement configured to input a material name (See Rassian Figure 7, front window, Name column) and a material model identification number (See Rassian Figure 7, rear window Part Number column) identifying at least one of a type of material property data ("subjecting the finite element model of the component to at least one environmental load" Rassian column 3 line 63), a type of material model, a name of an analysis program or a version thereof, ("depicts an example of a user interface that illustrates the type of parts and the package styles for the parts" Rassaian column 11 line 3).

12. **Argument 2:** Applicant's argument (page 13) that Rassian in view of Bergeron does not teach "a material model identification number", as required by claims 17, 20 and 21, is not persuasive.

13. **Response 2:** Rassian, however, teaches the recited elements: material model identification number (See Rassian Figure 7, rear window Part Number column).

14. **Argument 3:** Applicant's argument (page 14) that Rassian in view of Bergeron does not teach 'extracting' because Bergeron recites "data palette 1 is used to display information content of the rows of a result set", as required by claims 17, 20 and 21, is not persuasive.

15. **Response 3:** Rassian in view of Bergeron, however, teaches the recited elements: a sixth arrangement configured to extract ("data palette 1 is used to display information content of the rows of a result set" Bergeron column 9 line 10. Databases

return data as result sets, therefore 'extraction' from a database [Applicant's specification paragraph 36] can only be, and is done, through a result set.) Furthermore, A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

**16. Applicants further arguments depend on those addressed and are not persuasive under the above reasoning.**

***Conclusion***

17. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Chao whose telephone number is (571)270-5657. The examiner can normally be reached on 8-4 Monday through Thursday.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. C./  
Examiner, Art Unit 2442

/Jeffrey Pwu/  
Supervisory Patent Examiner, Art Unit 2446